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DEC 18 2001

NO. 531

P. 1/8

OFFICIAL

GROUP 1600

Atty Docket No. 015389-002616US

PTO FAX NO.: 703-872-9306

ATTENTION: Examiner
TELEPHONE NO.: 703-872-9305

Group Art Unit 651

OFFICIAL COMMUNICATION
FOR THE PERSONAL ATTENTION OF
EXAMINER

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following document(s) in re Application of Thomas R. Cech et al., Application No. 09/721,506, filed November 22, 2000 for HUMAN TELOMERASE CATALYTIC SUBUNIT is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Document(s) Attached

1. Fee Transmittal
2. Preliminary Amendment

Number of pages being transmitted, including this page: 8

Dated: December 17, 2001


Kathy Johnston

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TOTAL AMOUNT OF PAYMENT (\$) 216

Complete if Known

Application Number	09/721,506
Filing Date	November 22, 2000
First Named Inventor	Cach et al.
Examiner Name	Not yet assigned
Group Art Unit	1651
Attorney Docket No.	015389-002616US

METHOD OF PAYMENT		FEE CALCULATION (continued)	
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:		3. ADDITIONAL FEES	
Deposit Account Number	20-1430	Large Fee Code	Entity Fee Code
Deposit Account Name	Townsend and Townsend and Crow LLP	Small Fee Code	Entity Fee Code
<input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17			Fee Description
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27			Fee Paid
2. <input type="checkbox"/> Payment Enclosed:		105	130
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		127	50
FEE CALCULATION		139	130
1. BASIC FILING FEE		147	2,520
Large Fee Code	Entity Fee Code	112	920*
Small Fee Code	Entity Fee Code	113	1,940*
Fee Description	Fee Paid	115	110
101	740	116	400
106	330	117	620
107	310	118	1,440
108	740	128	1,960
114	160	118	320
SUBTOTAL (1) (\$)		120	320
2. EXTRA CLAIM FEES		121	280
Total Claims	32	139	1,510
Independent Claims	3	140	110
Multiple Dependent		141	1,290
SUBTOTAL (2) (\$)		142	1,280
SUBTOTAL (3) (\$)		143	460
		144	620
		122	130
		123	50
		126	180
		591	40
		146	740
		149	740
		179	740
		169	900
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Date

December 17, 2001

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PATENT
015389-002616US
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2-14-02
(NB)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas R. Cech et al.

Application No.: 09/721,506

Filed: November 22, 2000

For: HUMAN TELOMERASE
CATALYTIC SUBUNIT

Art Unit: 1651

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-referenced application, please enter the following amendments and remarks.

IN THE CLAIMS

Please cancel claims 1-20 without prejudice to subsequent renewal or future prosecution.

Please add new claims 21-52 as follows.

-- 21. A synthetic or recombinant telomerase reverse transcriptase protein, or variant thereof, or a fragment thereof, wherein the protein, variant or fragment contains a sequence that is at least 80% identical to SEQ. ID NO:2, and has telomerase catalytic activity when complexed with a telomerase RNA.

22. A composition comprising the protein, variant or fragment of claim 21, and further comprising an RNA, wherein the protein, variant or fragment and the RNA form a telomerase ribonucleic acid complex.